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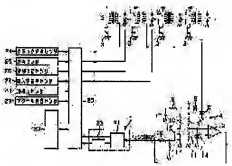
(54) COMBUSTION CONTROL DEVICE FOR ENGINE

(57)Abstract:
PROBLEM TO BE SOLVED: To set an optimum ignition timing based on an ion current waveform detected through an ignition plug.
SOLUTION: A combustion control device for an engine is formed such that an ion current waveform flowing to an ignition plug 1 after the lapse of a spark discharge period is detected by an ion current detecting circuit 4, a signal processing of the ion current waveform is effected by a low-pass filter circuit 21 and a high-pass filter circuit 22, and based on the ion current value processed by the low-pass filter circuit 21, an ion current value collated to a combustion pressure is detected by a control circuit 23, and based on an ion current value processed by the high-pass filter circuit 22, an ion current vibration value correlated to a knocking is calculated. Further, based on the ion current vibration value, the presence of a knocking is discriminated, and an ignition timing advance angle is advanced such that when knocking non-detecting state is produced, an actual ignition crank position obtained from a maximum combustion pressure crank position calculated based on the peak value of an ion. current approaches an optimum ignition crank position.



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